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(54) Title: COMPOSITION AND METHODS FOR CELL CULTURING AND TISSUE CULTURE PLATFORMS

(57) Abstract: This present invention describes a method of coating a polymer surface with diamond-like carbon (DLC) to render it useful as a carrier for cells derived from neural crest origin, preferable neuronal cells that form dendrites. The biopolymer to be coated with the DLC will include biodegradable polymers and other implantable biopolymers to act as a carrier system for cell transplantation into the various parts of the body, including the brain, the eye, the central and peripheral nervous system, the lung, the liver, the spleen, the kidney, and the bone and cartilage. The biopolymer can be in sheet form or microparticle form, and can be imbedded with, or incorporated into during its synthesis, attachment or growth promoting reagents to enhance and support neuronal cell attachment and growth.